

MSDS
DYNOSEIS®

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FAX NO.

DRILLING SERVICES

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DYNO
Dyno Nobel Inc

MATERIAL SAFETY DATA SHEET
DYNO NOBEL INC
11TH FLOOR CROSSROADS TOWER
SALT LAKE CITY, UTAH 84144
801-364-4900 TELEX 388353
FOR 24 HOUR EMERGENCY CALL 800-424-9300

MSDS# 1093

DATE: 02/05/06

Supersedes MSDS
1093 12/20/05

SECTION I - PRODUCT IDENTIFICATION

Trade Name(s): DYNOSEIS™

Product Class: Seismic Explosive

Product Appearance & Odor: White solid with no odor.

DOT Hazard Shipping Description: Substance, Explosives n.o.s.
(Sodium Perchlorate/Diethylene Glycol)
1.1D UN0475

SECTION II - HAZARDOUS INGREDIENTS

Ingredients:	CAS#	% (Range)	TLV-ACGIH
Sodium Perchlorate	7601-89-0	66-72	No Value Established
Diethylene Glycol	111-46-6	22-27	No Value Established

Ingredients, other than those mentioned above, as used in this product are not hazardous as defined under current Department of Labor regulations.

SECTION III - PHYSICAL DATA

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: (Air = 1) N/A

Density: 1.85 - 1.85 g/cc

Percent Volatile by Volume: <5

Solubility in Water: Completely soluble

Evaporation Rate (Butyl Acetate = 1): <1

N/A = Not Applicable or Not Available

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: (See Special Fire Fighting Procedures section).

Special Fire Fighting Procedures: Do not attempt to fight fires involving explosive materials. Evacuate all personnel to predetermined safe location, no less than 2,500 feet.

Unusual Fire and Explosion Hazards: Can explode under fire conditions. Burning material may produce toxic vapors.

SECTION V - HEALTH HAZARD DATA

Effects of Overexposure

Eyes: Can cause irritation, redness, and tearing.

Skin: Prolonged contact may cause irritation.

Ingestion: Large amounts may be harmful if swallowed.

Inhalation: May cause dizziness, nausea, intestinal upset.

Systemic or Other Effects: None known.

Emergency and First Aid Procedures

Eyes: Irrigate with running water for at least 15 minutes. If irritation persists seek medical attention.

Skin: Wash with soap and water.

Ingestion: Induce vomiting, seek medical attention.

Inhalation: Remove to fresh air.

Special Considerations: None.

SECTION VI - REACTIVITY DATA

Stability: Stable under normal conditions, may explode when subjected to fire or supersonic shock, or high energy projectile impact especially when confined or in large quantities.

Conditions to Avoid: Keep away from heat, flame, ignition sources, and strong shock.

Materials to Avoid (Incompatibility): Strong acids and alkali.

Hazardous Decomposition Products: Nitrous Oxides (NO₂), Carbon Monoxide (CO), Chlorine (Cl₂), Hydrogen Chloride (HCl)

Hazardous Polymerization: N/A

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SECTION VII - SPILL OR LEAK PROCEDURES

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Steps to be taken in case material is released or spilled: In case of fire evacuate area not less than 2,500 feet. Protect from all ignition sources. Notify authorities in accordance to emergency response procedures. Only personnel trained in emergency response should respond. If no fire danger is present, and product is undamaged and/or uncontaminated, repackage product in original packaging or other clean DOT approved container. Ensure that a complete account of product has been made and is verified. Follow applicable Federal, State, and local spill reporting requirements.

Waste Disposal Method: Disposal must comply with Federal, State, and local regulations. If product becomes a waste, it is potentially regulated as a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) Title II, Subtitle C.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: General room ventilation is normally adequate.

Respiratory Protection: None normally required.

Protective Clothing: Non-permeable gloves and work clothing which reduce skin contact are suggested.

Eye Protection: Safety glasses are suggested.

Other Precautions Required: N/A

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store in cool, dry location. Store in compliance with all local, State, and Federal regulations. Keep away from flames, heat, ignition sources or strong shock.

Other Precautions: It is recommended that users of explosives material be familiar with the Institute of Makers of Explosives Safety Library publications.

SECTION X - SPECIAL INFORMATION

This product contains the following substances that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Chemical Name

CAS Number

% By Weight

None Applicable

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